Herbrand Equipment

CATALOG NO. E-3023

Herbrand Equipment for Automotive tune up and testing is guaranteed by Herbrand to be the finest equipment presently available. Herbrand instruments are UNCONDITIONALLY guaranteed in writing for one year.

Herbrand Equipment is designed expressly for the automotive mechanic. All instructions are easy to follow — No special schooling is required. Hook-ups are easy and quick to make, meter scales are in large type for easy reading. All instruments, kits, and cabinets are portable. Herbrand Equipment is available either as separate instruments or complete cabinet units, depending on the mechanic's requirements.

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Herbrand Equipment

HERBRAND DIVISION, THE BINGHAM-HERBRAND CORP. FREMONT, OHIO

HT-850

The HT-850 Universal Dwell-Tach-Regulator tester is a single unit, portable universal tester. It is designed primarily as road service equipment or as an additional portable unit to give flexibility to the shop now limited by massive cabinet type "analyzers".

The HT-850 provides the following:

1. Battery test (in the car or truck).
2. Complete generator check.
3. Regulator, both test and setting.
4. Dwell reading.
5. Contact point resistance check.
6. Easy and accurate dwell setting with distributor out of engine.
7. Carburetor idle mixture adjustment.
8. Carburetor throttle setting.
9. R.P.M. reading for timing purposes.
10. Automatic transmission check.
11. Engine governor setting.

Scales are:

1. 0-16 volts
2. 0-60 amps
3. 10-45° dwell (8 cyl.)
4. 15-60° dwell (6 cyl.)
5. 0-2400 R.P.M. (8 cyl.)
6. 0-3200 R.P.M. (6 cyl.)

A complete shop manual, written for the practical mechanic is shipped with each HT-850. A single 5 lead hook-up with picture instructions after which ALL readings are made by turning a knob, makes this an excellent tester for the new tune-up specialist.

All Herbrand Guarantees apply.

Tach and Dwell readings for 4 cylinder engines are obtained by doubling the 8 cylinder scale reading.

The plastic meter front is highly resistant to discoloration by gasoline and oil.

HT-864

The HT-864 Combination Dwell-Meter and Tachometer is guaranteed accurate within 2% of full scale reading at any point on the dial.

Operation is simple: One knob selects either dwell or tach scale, the second knob sets the dwell.

The center toggle switch doubles the tach range for high speed checks.

The HT-864 operates on 6 to 24 volt systems automatically using standard flashlight batteries. Wide graduations on the easy-to-read dial assure accurate idle speed setting.

The HT-864 also checks non-metallic spark plug leads and resistor-type distributor rotors.

HT-210

Universal Marine Tachometer

The HT-210 Tachometer is the first truly electronic tach with a guaranteed accuracy of 2% of full scale, even at the maximum reading of 18000 R.P.M.!

It operates on any engine regardless of number of cylinders since the pick-up is from 1 spark plug lead only (secondary) by induction.

The HT-210 is current sensitive only, and readings are accurate, even if points bounce, or if the spark plug is fouled. It indicates plugs to which no spark is being delivered as well as showing spark plug polarity.

The HT-210 is not recommended for use on resistor type spark plug leads such as TVRS, although readings can usually be obtained by placing the sensing ring over the spark plug porcelain.

The HT-210 is fully temperature compensated, and extension leads of any length are available upon order.

HT-346

Tachometer

The Herbrand HT-346 Tachometer is designed to provide an economical, direct reading tachometer with no knobs or switches.
The triple scale reads as follows:

8 cyl. engine 0-3000 R.P.M.
6 cyl. engine 0-4000 R.P.M.
4 cyl. engine 0-6000 R.P.M.

These ranges are ample for all shop testing and practically all road testing at legal speeds.

In common with all Herbrand instruments, the HT-346 is guaranteed accurate to within 2% at ANY point on the dial. It checks all systems from 6 to 24 volts, using one standard flashlight cell.

Two simple connections with five foot leads permits mechanics to check idle speed adjustment, automatic transmission adjustments, and make carburetor adjustments.

HT-410

Dual-Range Tachometer

The Herbrand HT-410 Dual-Range Tachometer permits accurate engine or automatic transmission adjustments on either a 1000 r.p.m. or 5000 r.p.m. scale. Works equally well on all cars and trucks with 6 to 24 volt systems.

Simple range switch permits checking to either 1000 r.p.m. or 5000 r.p.m. The cam lobe switch accommodates 4, 6, or 8 cylinder engines.

There are only two wires to connect, one to the distributor, one to the ground. The HT-410 is uniformly accurate regardless of air temperature, and does not affect engine r.p.m.

HT-400

Generator-Regalator Tester

The HT-400 Generator-Regulator Tester permits mechanics to check generators and regulators on any 6, 12, 24, or 32 volt automotive electrical systems.

The built-in polarity switch eliminates changing leads. Simply flip the switch.

The dial is easy to read and calibrated for the following meter scales: 0-15 volts, 0-60 volts, and 0-60 amps. The 0-15 volt scale has 0.2 volt graduations for easy voltage drop checking.

The HT-400 is built to withstand constant use. It is a precision, temperature-compensated instrument with Jeweled pivots for longer life. A powerful magnet insures guaranteed accuracy.

HT-420

Dwell (cam angle) Meter

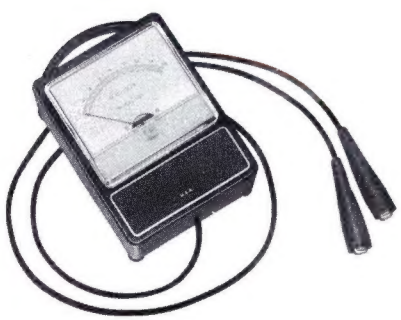
One simple hook-up of two test clips enables the mechanic to check the dwell setting as well as the condition of the breaker points in the distributor. Like all other Herbrand dwell meters, the HT-420 may be used to set the dwell either on the car or on the bench.

The dwell angle is graduated in degrees, and may be used on all 6 to 24 volt systems.

The Herbrand HT-420 dwell meter is a fine instrument designed for long life. All meter controls have positive position settings. The dial is designed for quick, accurate reading.

HT-100

Volt Meter



The HT-100 Voltmeter is the mechanics' basic test instrument. Not as versatile as the combination volt-ammeter, nevertheless the HT-100 performs valuable work for the garage which is not yet a full fledged tune-up shop.

The 0-16 volt scale handles all 6 and 12 volt systems, and provides an excellent means of checking:

1. Battery condition (in the car or truck)
2. Regulator (and resetting, too)
3. Relay closing voltage.
4. Ignition coil resistors.
5. Voltage drop.
6. Electrical leakage.

A complete shop manual is packed with each instrument.

With only two leads to connect, the mechanic can make six different checks from instructions on back. The HT-100 has five foot insulated leads, and is unconditionally guaranteed for one year.

HT-660
HT-700
HT-740
HT-600
HT-635
HT-605
HT-606

HT-660

Coil and Condenser Tester

The modern, simple and trouble-free HT-660 Coil and Condenser tester avoids all complicated procedures and tests directly the one important fact of coil performance, spark output. A direct reading scale shows the coil (or condenser) as GOOD or BAD. A flip of the control knob heats the coil for further test.

The 6 to 24 volt range tests:

1. Coil and condenser in the engine.
2. Coil and condenser on the bench.
3. Magneto coils and condensers, (all types).
4. Coil breakdown by heating coil.
5. Any condition that requires loading the secondary wiring, such as leaking distributor caps or plug wiring.
6. Will compare the spark output of 2 or more coils.

All necessary leads for bench testing are supplied with the HT-660.

HT-700

Generator "quick-check" Meter

The HT-700 provides a quick-to-use substitute for the dash ammeter which is left off of the "Red dash light" cars.
Merely place the wire to be checked in the guide on the back of the HT-700 and read the current that is flowing.
Checks charging rate in amps. Cut-out opening. Shows whether any particular circuit is dead. Excellent for the pump island. Check water and oil, then generator output to secure generator-regulator work for shop.
Reads 0-75 amps regardless of polarity. Use on 6 and 12 volt systems.

HT-635

Compression Gauge Tester Kit

The starting point for any tune-up is a compression check. Unequal cylinder pressures mean the engine will not tune satisfactorily. Gauge head is graduated to 300 P.S.I. for accurate readings at mid-scale, and has pressure release valve.
Adapter stems make up . . .
1. Short straight.
2. Long straight—Chrysler deep well.
3. Angle—for under the manifold plug openings.

Complete in metal box with extra valves, gaskets, rubber cones and step cut self locking "cones".
Your tune-up equipment starts with the compression gauge.

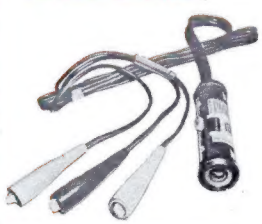
HT-740

Starter Current Indicator Meter

This compact meter requires no hook-up—just place the induction bar over the starter cable and depress starter switch—gauge will indicate amperage draw of the starter motor—gauge reads 0-400 (25 amp per graduation) in either direction for reading regardless of polarity. For 6 and 12 volt systems.

HT-606

Remote Circuit Control



The HT-606 by-passes the usual ignition and starter switches, permitting the mechanic to either "roll over the engine", or to start-run and stop the engine even with the dash ignition switch locked. It is the one best answer to the missing ignition key.
Built-in tester bulb shows any "hot" circuit.
Use as jumper with switch to test inoperative accessories or an emergency jumper for broken circuits.

HT-600

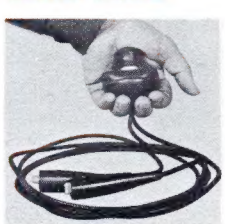
Vacuum and Fuel Pump Gauge

The HT-600 is essential for checking for leaks in manifold gaskets, manifolds, carburetor flange gaskets, for loose tappets, bad timing, etc. Double end pointer on dial provides easy reading, and built-in check valve eliminates pointer "flip-flops".

The vacuum scale reads to 25 inches; fuel pump pressure to 7 pounds. A universal clamp faces any direction, clamps anywhere on car.

HT-605

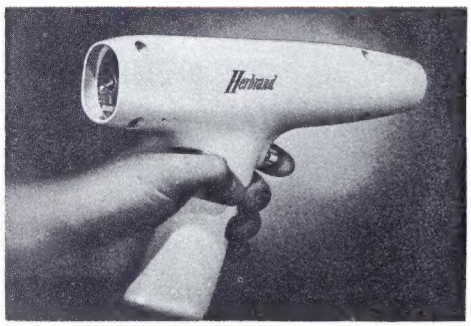
Remote Starter Switch



The HT-605 is a heavy-duty push button remote starter switch with extra long lead wires designed to save time in tune-up. Eliminates use of extra man to crank engine when making tappet adjustments, setting points, etc. Heavy duty means the HT-605 can be used as a battery to starter jumper.

HT-800

Power Timing Light



The Herbrand HT-800 "Controlled Output" Power Timing Light is guaranteed unconditionally for one full year. The "controlled output" feature provides equally brilliant light for both 6 volt and 12 volt systems. The exclusive UNDERLOADED CIRCUIT gives twice the service life of ordinary timing lights, and the voltage-matching switch positively locks out the wrong voltage.

The HT-800's high-impact plastic case is electrically non-conductive. Greater light output is provided by the ground and polished lens. The finest power timing available anywhere.

HT-670

A.C. Power Timing Light

The Herbrand HT-670 A.C. Power Timing Light has been designed for economical, trouble-free performance in service stations, repair garage, or car dealership.

The 110 volt A.C. lead carries a ground wire and terminal. This ground is a part of the hook-up. USE IT!

For use on 6, 12, 24, or 48 volt systems, with simple hook-up and prefocused lens, the Herbrand HT-670 is the answer to easy, fast timing of all cars.

HT-640

Neon Tube Timing Light

The Herbrand HT-640 Neon Tube Timing Light is easy to use and low in cost. Terminals on leads are for use on rubber covered spark plugs, but may be used on other plugs as well.

The leads swivel freely in their sockets, preventing twist-off but permitting easy pull out for replacement.

All parts are quickly and easily replaced. The HT-640 is a well-constructed low-cost timing light capable of unusual hard usage.

HT-900

Tune Up Center

includes one each:

- HT-800 Power Timing Light
- HT-660 Coil-Condenser Tester
- HT-400 Generator-Regulator Tester
- HT-864 Combination Dwell Meter Tachometer
- HT-610 Compression gauge and adaptors
- HT-600 Vacuum and Fuel Pump Gauge
- HT-605 Remote Starter Switch
- HT-900-6 Portable Cabinet

The Herbrand HT-900 Tune Up Center is the first practical, portable Tune Up Center with built-in quality features and a full year's guarantee—designed expressly for service station and repair garage use.

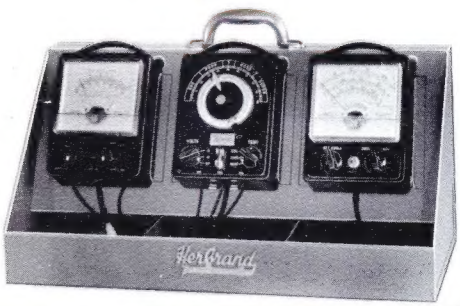
It is complete in every respect and all instruments are portable. There are no permanent hookups, batteries, or chargers to attach.

The cabinet has three drawers for ignition parts storage as well as a storage shelf for starters and generators.
Full easy-to-understand instructions are provided with each instrument, and up-to-date tune up specifications with each cabinet.

HT-900-6 cabinet only is available if mechanic already has equipment.

HT-510

Tune Up Set



Includes one each:

- HT-400 Generator-Regulator Tester
- HT-660 Coil-Condenser Tester
- HT-864 Combination Dwell Meter-Tachometer
- HT-450 Carrier Rack

The Herbrand HT-510 Tune Up Set is an inexpensive unit that provides regular checks on generators, carburetors, distributors, coils, condensers, and engine speeds.

The sturdy steel case is portable and can be stored out of the way when not in use. The HT-510 plus a timing light will start any service station or repair garage in the tune up business.

A plastic cover (HT-451) for the entire unit is available as an optional accessory.

Portable Stands

HT-450

Three Unit Carrier Rack

The HT-450 will contain any three Herbrand test instruments. Made of 22 and 24 gauge steel, orange enamelled with metal handle. 22" wide, 11½" high, 10¼" deep.

HT-451 clear vinyl cover available as optional equipment.

HT-475

Equipment Utility Stand

This stand will hold the HT-510 Tune up Set plus extra tune up equipment and tools. It is 28" high, 23" wide, 18" deep, and made of 16 gauge orange enamelled steel.

Heavy duty casters and handle permit tune up outside garage area.

ACCESSORIES

Carrier racks | Carrier rack covers | Utility equipment stand

REPLACEMENT PARTS

Replacement parts as listed below are available for all Herbrand equipment from the Herbrand jobber. See price list for sizes and prices.

Gaskets, compression gauge

Adapters, compression gauge

Flash tubes, timing light

Compression gauge head

Cones, compression gauge, standard

Cones, compression gauge, expandable, 14MM

Cones, compression gauge, expandable, 18MM

Valve cores

Test lead set for HT-660

Vibrators

Adapters, Vacuum gauge

Adapter, timing light

Repair and service parts are handled by Herbrand Authorized Repair Centers through the Herbrand jobbers.

UNCONDITIONAL GUARANTEE

The following meters, HT-100, HT-210, HT-346, HT-850, HT-864, HT-660, HT-420, HT-410, HT-400, HT-670 timing light and HT-800 timing light are guaranteed to provide satisfactory service for a period of one full year.

Any meter which fails or requires service during this period (excepting cases of abuse) will be repaired or replaced free of charge providing warranty card is filled out and mailed to Herbrand at time of purchase.

DISTRIBUTED BY

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Herbrand Equipment

HERBRAND DIVISION, THE BINGHAM-HERBRAND CORP.
FREMONT, OHIO

ELECTRICAL TEST EQUIPMENT

DEALERS' NET PRICES—EFFECTIVE AUGUST 1, 1960

This price sheet supersedes E-3014 issued January 1, 1960. Prices, discounts and terms are subject to change without notice. All orders will be invoiced at prices in effect at the time of shipment.

Form No. E-3025

THE HERBRAND GUARANTEE—These instruments are fully guaranteed against defective materials and workmanship. They are precision instruments. Avoid rough handling. Read instructions BEFORE using. (See Sales folder for Complete Guarantee.)

Net Price	Part No.	Description
	EQUIPMENT	
$20.55	HT-100	Volt-meter
59.95	HT-210	Universal Marine Tachometer
39.14	HT-346	Tachometer
39.14	HT-400	Regulator Tester (Voltmeter-Ammeter)
54.09	HT-410	Tachometer
39.14	HT-420	Cam Angle Meter (Dwell Meter)
9.24	HT-600	Vacuum and Fuel Pump Combination Gauge
5.11	HT-605	Remote Starter Switch
10.25	HT-606	Remote Circuit Control
19.54	HT-635	Compression Tester Kit Complete (consists of 1 ea. HT-611, HT-614, HT-620, HT-625, HT-627, HT-628 and (2) HT-626)
5.96	HT-640	Neon Tube Timing Light
25.70	HT-660	Coil and Condenser Tester
26.77	HT-670	A. C. 110 Volt Timing Light
5.10	HT-700	Generator Quick Check Ammeter
4.90	HT-740	Starter-Current Indicator Meter
39.95	HT-800	Power Timing Light
65.00	HT-850	Combination Dwell-Tach-Regulator Tester
61.76	HT-864	Combination Dwell-Tach Voltmeter
	TUNE-UP SETS	
140.04	HT-510	Tune-Up Set (1 ea. of HT-400, HT-660, HT-864 and HT-450)
329.95	HT-900	Tune-Up Center Complete
138.15	HT-900-6	Tune-Up Center, without equipment
	ACCESSORIES	
14.44	HT-450	Carrier Rack
2.41	HT-451	Clear Vinyl Cover for Carrier Rack
19.54	HT-475	Utility and Equipment Stand
3.95	HT-661	Test Lead Set for HT-660

REPLACEMENT PARTS

4.39	HT-611	Head Gauge
3.03	HT-614	Short Adaptor
5.71	HT-615	Adapter Stem for Chevrolet, Packard, Studebaker, Nash V-8 Engines
3.48	HT-620	Adapter Stem for Chrysler, Dodge and DeSoto V-8 Engines
6.16	HT-625	Adapter Stem for Ford, Mercury and Lincoln Overhead Valve Engines
.15	HT-626	Rubber Cone for Compression Gauge Stem
.31	HT-627-14	Expandable Cone for Compression Gauge Stem
.31	HT-627-18	Expandable Cone for Compression Gauge Stem
.15	HT-628	Core or Valve for Compression Gauge Stem
1.67	HT-641	Flash Tube for HT-640
8.23	HT-651	Flash Tube for HT-650
6.01	HT-652	Vibrator for HT-650
9.65	HT-671	Bulb for HT-670